

CHARGE NUMBER: 2105
PROJECT TITLE: Filter Development
PROJECT LEADER: W. A. Nichols
PERIOD COVERED: August, 1981

I. CAM II

Brown and Williamson's patent application for grooved filters discusses the necessity for an air or smoke impermeable plugwrap. To determine the limits of permeability to smoke nonporous plugwrap, Ecusta 648, was tested. Using a 1.13 cm² exposed paper area, smoke was drawn through the plugwrap by a syringe pump (1050 cc/min.) Twenty-five samples were tested and visible smoke flow could be seen with all samples.

II. EXTRUDED TOBACCO

Work continued on the evaluation of various binders. Sheet samples were produced with various molecular weight Klucels and polyvinyl alcohol. Satisfactory sheet was made with 50% solids (4% Klucel, 4% polyvinyl alcohol, 92% tobacco dust) and 50% water. This formulation represents the most economical sheet yet produced. Further sheet properties will be evaluated.

III. CIRCUMFERENCE MEASUREMENT

Testing of a new design that replaced the Eastman LaserMike[®] modification was completed. A unit will be made available to QA for factory testing.

IV. ADHESIVE APPLICATION

A Findley adhesive foamer was installed and tested. In collaboration with Manufacturing Operations, foamed tipping adhesives are being evaluated as a method to reduce adhesive usage and possibly eliminate skip tip adhesive application. Tests were performed with 50% foamed adhesive on a PA-8 at 4200 cigarettes/min. Satisfactory adhesion was achieved with skip tip and full coverage adhesive application.



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